

University of Washington - Laboratory Genetics and Genomics  
 Department of Laboratory Medicine and Pathology  
 Program# M025400001  
 Block Diagram

Block: Year 1	1	2	3	4	5	6	7	8	9	10	11	12
Site	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1
Rotation Name	UWMC Cyto	UWMC Cyto	UWMC Cyto	UWMC Cyto	UWMC CGL	UWMC CGL	UWMC CDL	UWMC CDL	UWMC GST	UWMC GST	UWMC GST	UWMC GST
% Clinical Lab	100	95	100	95	100	100	95	95	100	100	100	100
% Outpatient	0	5	0	5	0	0	5	5	0	0	0	0
% Research	0	0	0	0	0	0	0	0	0	0	0	0

\*Vacation Policy- 28 vacation days (20 weekdays and 8 weekend days) on any rotation with approval from Program Director

Block: Year 2	1	2	3	4	5	6	7	8	9	10	11	12		
Site	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 2	Site 2	Site 2	Site 2	Site 3	Site 3	Site 3
Rotation Name	Content of this concentration/research will be determined at the end of the trainee's 1st year of training review with the Program Director and will include a documented, structured, written plan based on the trainee's career goals							SCH Cyto/Mol		SCH BC 2 wks	FHCC CCG	FHCC CCG 2 wks	FHCC Immuno 2 wks	
% Clinical Lab	0	0	0	0	0	0	0	95	95	95	100	100	100	100
% Outpatient	0	0	0	0	5	0	0	5	5	5	0	0	0	0
% Research	100	100	100	100	95	100	100	0	0	0	0	0	0	0

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Training Site	
Site 1	University of Washington Medical Center - Montlake (UWMC)
Site 2	Seattle Children's Hospital (SCH)
Site 3	Fred Hutchinson Cancer Center (FHCC)

Abbreviations	Rotation	Details
UWMC Cyto	UWMC Cytogenetics Laboratory	<ul style="list-style-type: none"> <li>Orientation (Basic training: Biosafety, Blood Pathogens, HIPAA, etc.)</li> <li>Chromosome identification, Banding, Karyotyping, FISH, Tissue cultures</li> <li>Constitutional: 2 months (Prenatal and postnatal)</li> <li>Neoplasia: 2 months</li> </ul>
UWMC CGL	UWMC Clinical Genomics Laboratory	<ul style="list-style-type: none"> <li>Genomic Microarray analysis, ddPCR, Y-PCR male infertility, Fusionplex RNA analysis, NGS</li> <li>Constitutional: 1 month (Prenatal and postnatal)</li> <li>Neoplasia: 1 month</li> </ul>
UWMC CDL	UWMC Collagen Diagnostic Laboratory	<ul style="list-style-type: none"> <li>NGS panel, Sanger sequencing, Fragment analysis, Prenatal/Carrier Testing</li> <li>Constitutional: 2 months (Prenatal and postnatal)</li> </ul>
UWMC GST	UWMC Genetics and Solid Tumors Lab	<ul style="list-style-type: none"> <li>NGS Basics, Exome, Targeted Gene Panels, NIPT, Fragment analysis, Southern analysis, Genotype detection, Prenatal/Carrier Testing</li> <li>Constitutional: 2 months (Prenatal, prenatal carrier test, and postnatal)</li> <li>Molecular Oncology</li> <li>Neoplasia 2 months</li> </ul>
FHCC CCG	FHCC Clinical Cancer Genomics laboratory	<ul style="list-style-type: none"> <li>Karyotyping, FISH, Genomic Microarray analysis</li> <li>Neoplasia: 1.5 months</li> </ul>
FHCC Immuno	FHCC Immunogenetics Laboratory	<ul style="list-style-type: none"> <li>Immunogenetics, Neoplasia: 2 weeks</li> </ul>
SCH Cyto/Mol	SCH Cytogenetics and Molecular Genetics Laboratories	<ul style="list-style-type: none"> <li>Karyotyping, FISH, Genomic Microarray analysis</li> <li>Fragment analysis, Genotype detection, Carrier Testing, NGS gene panels, Sanger Sequencing and MLPA</li> <li>Constitutional: 1.5 month (postnatal)</li> <li>Neoplasia: 1 month</li> </ul>
SCH BC	SCH Biochemistry Laboratory	<ul style="list-style-type: none"> <li>Biochemical Genetics, Constitutional: 2 weeks</li> </ul>

**Outpatient:** 5% outpatient at the UWMC and SCH Genetics clinics (total: 6.5 months, 8 hours/month)  
 5% outpatient UWMC Maternal Fetal Medicine Clinic (1 month, 8 hours)

**Didactic/courses:**

- Medical Genetics Journal Club and Genetic Case Conference (2 hrs per week)
- Medical Genetics Seminar (1 hr per week)
- Human Cytogenetics (PATH 530) (1<sup>st</sup> year spring quarter, 4 credit course)
- Introduction to Human and Medical Genetics (MED 522) (2<sup>nd</sup> year didactics, 2 hours per week for 9 months)

PATH 530 <https://myplan.uw.edu/course/#/courses/PATH530>

MED 522 <https://myplan.uw.edu/course/#/courses/MED522>